

<b>PATENT ASSIGNMENT COVER SHEET</b>
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EPAS ID: PAT3943385

<b>SUBMISSION TYPE:</b>	CORRECTIVE ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	Corrective Assignment to correct the CITY OF APPLICANT WHICH SHOULD READ 'CHUNGCHEONGNAM-DO' previously recorded on Reel 028461 Frame 0165. Assignor(s) hereby confirms the CITY IS INCORRECTLY INDICATED AS 'CHUNGHEONGNAM-DO'.

**CONVEYING PARTY DATA**

Name	Execution Date
JAEMIN ROH	06/25/2012

**RECEIVING PARTY DATA**

<b>Name:</b>	SEMES CO., LTD.
<b>Street Address:</b>	278, MOSI-RI, JIKSAN-EUP, SEOBUK-GU
<b>Internal Address:</b>	CHEONAN-SI
<b>City:</b>	CHUNGCHEONGNAM-DO
<b>State/Country:</b>	KOREA, REPUBLIC OF
<b>Postal Code:</b>	330-290

**PROPERTY NUMBERS Total: 1**

Property Type	Number
<b>Application Number:</b>	13535017

**CORRESPONDENCE DATA**

**Fax Number:** (919)419-0383  
*Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.*

**Phone:** 9194938000  
**Email:** jberton@jwth.com  
**Correspondent Name:** JEFFREY L. WILSON  
**Address Line 1:** 3100 TOWER BOULEVARD  
**Address Line 2:** SUITE 1200  
**Address Line 4:** DURHAM, NORTH CAROLINA 27707

<b>ATTORNEY DOCKET NUMBER:</b>	1654/50
<b>NAME OF SUBMITTER:</b>	JACQUELYNN A. BERTON
<b>SIGNATURE:</b>	/jacquelynn a. berton/
<b>DATE SIGNED:</b>	06/30/2016

**Total Attachments: 4**

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### PATENT ASSIGNMENT

Electronic Version v1.1  
Stylesheet Version v1.1

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Jaemin Roh	06/25/2012
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	Semes Co., Ltd.
<b>Street Address:</b>	278 Mosi-ri, Jiksan-eup, Seobuk-gu, Cheonan-si
<b>City:</b>	Chungheongnam-do
<b>State/Country:</b>	KOREA, REPUBLIC OF
<b>Postal Code:</b>	330-290
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	13535017
<b>CORRESPONDENCE DATA</b>	

**Fax Number:** (919)419-0383  
**Email:** lbridge@jwth.com  
*Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.*  
**Correspondent Name:** Jeffrey L. Wilson  
**Address Line 1:** 3100 Tower Boulevard  
**Address Line 2:** Suite 1200  
**Address Line 4:** Durham, NORTH CAROLINA 27707

<b>ATTORNEY DOCKET NUMBER:</b>	1654/50
<b>NAME OF SUBMITTER:</b>	Jeffrey L. Wilson
<b>Signature:</b>	/jeffrey l wilson/
<b>Date:</b>	06/28/2012

**Total Attachments: 2**  
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**RECEIPT INFORMATION**

**EPAS ID:** PAT2008455  
**Receipt Date:** 06/28/2012  
**Fee Amount:** \$40

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PATENT

Atty Docket:

1654/50

ASSIGNMENT

WHEREAS, I, ROH, JAEMIN, residents of Chungcheongnam-do, Republic of Korea, (hereinafter "Assignors"), have invented certain new and useful improvements in APPARATUSES AND METHODS FOR TREATING SUBSTRATE for which application was made on June 27, 2012 as U.S. Patent Application No. (13/535,017 ), and which claims priority to and the benefit of Korean Patent Application No. 10-2011-0101968 filed on October 6, 2011 and to Korean Patent Application No. 10-2011-0064996, filed on June 30, 2011. We hereby authorize and request our attorneys, Jenkins, Wilson, Taylor, & Hunt, P.A., to insert in parentheses above the application number and filing date of said application when known. Chungcheongnam-do

AND, WHEREAS, Semes Co., Ltd., a corporation duly organized and existing under the laws of the Republic of Korea, having its principal office and place of business at 278, Mosi-ri, Jiksan-eup, Seobuk-gu, Cheonan-si, Chungcheongnam-do 330-290, Republic of Korea (hereinafter "Assignee"), is desirous of acquiring an interest therein. JLW  
6-30-16

NOW, THEREFORE, To Whom It May Concern, be it known that for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignors have sold and by these presents do hereby sell, assign, transfer and convey unto the Assignees, their successors and assigns, their entire right, title and interest in and to the invention and application, and in and to any and all foreign patent applications filed on the invention, and in and to any and all continuations, continuations-in-part, or divisions thereof, and in and to any and all Letters Patent of the United States of America and all foreign countries or reissues thereof which may be granted therefor or thereon, for the full end of the term for which said Letters Patent may be granted, together with their right to claim the priority of said application in all foreign countries in accordance with the International Convention, the same to be held and enjoyed by said Assignees, their successors and assigns, as fully and entirely as the same would have been held and enjoyed by Assignors if this assignment and sale had not been made.

**PATENT**

NOT FOR PUBLICATION

**REEL: 039218 FRAME: 0752**


Atty. Docket No.: 1654/50

Assignors hereby request that said Letters Patent be issued in accordance with this assignment.

Assignors further covenant and agree that, at the time of the execution and delivery of these presents, Assignors possess full title to the invention and application above-mentioned, and that they have the unencumbered right and authority to make this assignment.

Assignors further covenant and agree, and likewise bind their heirs, legal representatives and assigns, to promptly communicate to said Assignees or their representatives any facts known to them relating to said invention, to testify in any interference or legal proceedings involving said invention, to execute any additional papers which may be requested to confirm the right of the Assignees, their representatives, successors and assigns to secure patent or similar protection for the said invention in all countries and to vest in the Assignees complete title to the said invention and Letters Patent, without further compensation, but at the expense of said Assignees, their successors, assigns and other legal representatives.

Executed this 25 day of 6, 2012.

  
\_\_\_\_\_  
ROH, JAEMIN

Witnessed by:

\_\_\_\_\_  
Name Date

\_\_\_\_\_  
Name Date